10/723,428

WEST Search History

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DATE: Monday, December 05, 2005

Hide?	Set Name	Query	Hit Count
		DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ	
☐	L87	L85 and ((birdcage or "bird cage" or bird-cage or ((unitary or single) with (structure))) with ((primary or secondary or first or second) with (resonan$2)) with (shar$3 or connect$4 or mutual$2 or common or "same" or partial$2 or portion) with (overlap$4 or over-lap$4))	1
☐	L86	L85 and ((birdcage or "bird cage" or bird-cage or ((unitary or single) with (resonat$3 or coil or structure))) with ((primary or secondary or first or second) with (resonat$3)) with (shar$3 or connect$4 or mutual$2 or common or "same" or partial$2 or portion) with (overlap$4 or over-lap$4))	0
☐	L85	L84 and (((primary or secondary or first or second) with (resonan$2)) with (ring or loop or anulus or anular$2 or "end" or "member") with (rod or leg or conduct$2 or segment))	66
☐	L84	L81 and ((primary or secondary or first or second) with (resonan$2))	1209
☐	L83	L82 and (slop$3 or taper$3 or ((vary$3 or vari$4 or chang$3 or alter$3 or different or separate or individual) with (diameter or radius)))	3
☐	L82	L81 and (((primary or secondary or first or second) with (resonan$2)) with (neighbor$4 or "adjacent" or "next" or "region" or area or volume) with (shar$3 or connect$4 or mutual$2 or common or "same" or partial$2 or portion) with (overlap$4 or over-lap$4))	15
☐	L81	l77 and (birdcage or "bird cage" or bird-cage or ((unitary or single) with (resonat$3 or coil or structure)))	2987
☐	L80	L79 and (slop$3 or taper$3 or ((vary$3 or vari$4 or chang$3 or alter$3 or different or separate or individual) with (diameter or radius)))	1
☐	L79	L78 and (((primary or secondary or first or second) with (resonan$2)) with (neighbor$4 or "adjacent" or "next" or "region" or area or volume) with (shar$3 or connect$4 or mutual$2 or common or "same" or partial$2 or portion) with (overlap$4 or over-lap$4))	9
☐	L78	L77 and (birdcage or "bird cage" or bird-cage or ((unitary or single) with (structure)))	1225
☐	L77	((324/300-322.ccls.) or (600/407-435.ccls.) or (382/128-131.ccls.))	18004
☐	L76	L64 and (slop$3 or taper$3 or ((vary$3 or vari$4 or chang$3 or alter$3 or different or separate or individual) with (diameter or radius)))	2
☐	L75	L74 and ((birdcage or "bird cage" or bird-cage or ((unitary or single) with (structure))) with ((primary or secondary or first or second) with (resonan$2)) with (shar$3 or connect$4 or mutual$2 or common or "same" or partial$2 or portion) with (overlap$4 or over-lap$4))	2
☐	L74	L64 and (diameter)	5
		L72 and ((connect$4 or interconnect$4 or inter-connect$4 or link$3 or bridg$3	

Interference Search

☐	L73	or join$3) with (ring or loop or anulus or anular$2 or "end" or "member") with (rod or leg or conduct$2 or segment))	2
☐	L72	L64 and (((primary or secondary or first or second) with (resonan$2)) with (ring or loop or anulus or anular$2 or "end" or "member") with (rod or leg or conduct$2 or segment))	3
☐	L71	L67 and (((primary or secondary or first or second) with (resonan$2)) with (ring or loop or anulus or anular$2 or "end" or "member") with (rod or leg or conduct$2 or segment))	2
☐	L70	L67 and (electric$4)	3
☐	L69	L68 and (((primary or secondary or first or second) with (resonan$2)) with (separat$4 or parallel or individual$2 or independent$2) with (channel or port or receiver))	1
☐	L68	L67 and ((separat$4 or parallel or individual$2 or independent$2) with (channel or port or receiver))	3
☐	L67	L66 and ((shar$3 or connect$4 or mutual$2 or common or "same" or partial$2 or portion) with (overlap$4 or over-lap$4))	4
☐	L66	L65 and (field-of-view or "field of view" or "FOV" or "ROI" or (region with (interest or investigation)))	4
☐	L65	L64 and ((connect$4 or interconnect$4 or inter-connect$4 or link$3 or bridg$3 or join$3) with (ring or loop or anulus or anular$2 or "end" or "member") with (rod or leg or conduct$2 or segment))	4
☐	L64	L63 and (((primary or secondary or first or second) with (resonan$2)) with (neighbor$4 or "adjacent" or "next" or "region" or area or volume) with (shar$3 or connect$4 or mutual$2 or common or "same" or partial$2 or portion) with (overlap$4 or over-lap$4))	10
☐	L63	L1 and (birdcage or "bird cage" or bird-cage or ((unitary or single) with (structure)))	12198
☐	L62	L61 and ((connect$4 or interconnect$4 or inter-connect$4 or link$3 or bridg$3 or join$3) with (ring or loop or anulus or anular$2 or "end" or "member") with (rod or leg or conduct$2 or segment))	2
☐	L61	L55 and (((primary or secondary or first or second) with (resonan$2)) with (neighbor$4 or "adjacent" or "next" or "region" or area or volume) with (shar$3 or connect$4 or mutual$2 or common or "same" or partial$2 or portion) with (overlap$4 or over-lap$4))	3
☐	L60	L59 and (((primary or secondary or first or second) with (resonan$2)) with (neighbor$4 or "adjacent" or "next" or "region" or area or volume) with (shar$3 or connect$4 or mutual$2 or common or "same" or partial$2 or portion) with (overlap$4 or over-lap$4))	2
☐	L59	L58 and (birdcage or "bird cage" or bird-cage or ((unitary or single) with (structure)))	5
☐	L58	L57 and ((connect$4 or interconnect$4 or inter-connect$4 or link$3 or bridg$3 or join$3) with (ring or loop or anulus or anular$2 or "end" or "member") with (rod or leg or conduct$2 or segment))	9
☐	L57	L56 and (field-of-view or "field of view" or "FOV" or "ROI" or (region with (interest or investigation)))	10
☐	L56	L55 and ((neighbor$4 or "adjacent" or "next" or "region" or area or volume) with (overlap$4 or over-lap$4))	14

☐	L55	L54 and ((shar$3 or connect$4 or mutual$2 or common or "same" or partial$2 or portion) with (overlap$4 or over-lap$4))	17
☐	L54	L53 and (((primary or secondary or first or second) with (resonan$2)) with (ring or loop or anulus or anular$2 or "end" or "member") with (rod or leg or conduct$2 or segment))	175
☐	L53	L52 and (rod or leg or conduct$2 or segment)	538
☐	L52	L51 and (((primary or secondary or first or second) with (resonan$2)) with(ring or loop or anulus or anular$2 or "end" or "member"))	794
☐	L51	L49 and (ring or loop or anulus or anular$2 or "end" or "member")	5629
☐	L50	L49 and (ring or loop or anulus or anular$2)	3292
☐	L49	L1 and ((primary or secondary or first or second) with (resonan$2))	7938
☐	L48	L47 and (unitary)	0
☐	L47	L46 and (electric$4)	4
☐	L46	L45 and (field-of-view or "field of view" or "FOV" or "ROI" or (region with (interest or investigation)))	5
☐	L45	L44 and ((shar$3 or connect$4 or mutual$2 or common or "same" or partial$2 or portion) with (overlap$4 or over-lap$4))	11
☐	L44	L24 and ((birdcage or "bird cage" or bird-cage) with ((primary or secondary or first or second) with (resonan$2)))	12
☐	L43	L42 and ((birdcage or "bird cage" or bird-cage) with ((primary or secondary or first or second) with (resonan$2)))	3
☐	L42	L41 and (ring or loop or anulus or anular$2)	10
☐	L41	L40 and (rod or leg or conduct$2 or segment)	10
☐	L40	L39 and ((primary or secondary or first or second) with (resonan$2))	11
☐	L39	L38 and (electric$4)	15
☐	L38	L37 and ((shar$3 or connect$4 or mutual$2 or common or "same" or partial$2 or portion) with (overlap$4 or over-lap$4))	17
☐	L37	L36 and (shar$3 or connect$4 or mutual$2 or common or "same")	18
☐	L36	L35 and (head or neck or skull or brain or cranium)	18
☐	L35	L34 and ((neurovascular$2 or neuro-vascular$2 or neck or anterior or posterior or spine or cervical or back) with (coil or array))	21
☐	L34	L25 and (field-of-view or "field of view" or "FOV" or "ROI" or (region with (interest or investigation)))	51
☐	L33	L27 and (monski.in.)	1
☐	L32	L25 and (monski.in.)	2
☐	L31	L24 and (monski.in.)	5
☐	L30	L29 and ((neurovascular$2 or neuro-vascular$2 or neck or anterior or posterior or spine or cervical or back) with (coil or array))	14
☐	L29	L28 and (head or neck or skull or brain or cranium) ·	23
☐	L28	L27 and (field-of-view or "field of view" or "FOV" or "ROI" or (region with (interest or investigation)))	32
☐	L27	L26 and ((shar$3 or connect$4 or mutual$2 or common or "same") with	62

☐	L26	(overlap$4 or over-lap$4)) L25 and (shar$3 or connect$4 or mutual$2 or common or "same")	97
☐	L25	L24 and ((neighbor$4 or "adjacent" or "next" or "region" or area or volume) with (overlap$4 or over-lap$4))	99
☐	L24	L2 and (overlap$4 or over-lap$4)	202
☐	L23	L7 and (slop$3 or taper$3 or ((vary$3 or vari$4 or chang$3 or alter$3 or different or separate or individual) with (diameter or radius)))	4
☐	L22	L20 and (slop$3 or taper$3 or ((vary$3 or vari$4 or chang$3 or alter$3 or different or separate or individual) with (diameter or radius)))	1
☐	L21	L20 and (slop$3 or taper$3 or ((vary$3 or vari$4 or chang$3 or alter$3) with (diameter or radius)))	1
☐	L20	L19 and (field-of-view or "field of view" or "FOV" or "ROI" or (region with (interest or investigation)))	11
☐	L19	L18 and (parallel or separat$3 or independent$2)	11
☐	L18	L14 and (channel)	11
☐	L17	L16 and (channel)	8
☐	L16	L14 and (parallel)	10
☐	L15	L14 and ((parallel with (imag$3 or resonan$3)) or "PI")	7
☐	L14	L13 and ((neighbor$4 or "adjacent" or "next") with (overlap$4 or over-lap$4))	14
☐	L13	L12 and (neighbor$4 or "adjacent" or "next")	57
☐	L12	L11 and (ring or loop or anulus or anular$2 or rod or conduct$2 or leg or segment$3)	73
☐	L11	L10 and (diameter or taper$4)	76
☐	L10	L9 and (resonan$2)	113
☐	L9	L8 and (head or neck or skull or brain or cranium)	114
☐	L8	L2 and (overlap$4 or over-lap$4)	202
☐	L7	L6 and (ellipsoid$4 or ellipse or eliptical$3 or elliptical$3)	5
☐	L6	L5 and (diameter or taper$4)	11
☐	L5	L4 and (overlap$4 or over-lap$4)	13
☐	L4	L3 and (head or neck or skull or brain or cranium)	37
☐	L3	L2 and (dome or domed or (spherical with resonator) or end-cap$4)	39
☐	L2	L1 and (birdcage or "bird cage" or bird-cage)	761
☐	L1	((magnetic adj resonance) or MRI or NMR)	216310

END OF SEARCH HISTORY

Hit List

Search Results - Record(s) 1 through 1 of 1 returned.

☐   1.   Document ID: US 20050099179 A1

Using default format because multiple data bases are involved.

L80: Entry 1 of 1   File: PGPB   May 12, 2005

PGPUB-DOCUMENT-NUMBER: 20050099179
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050099179 A1

TITLE: Parallel imaging compatible birdcage resonator

PUBLICATION-DATE: May 12, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Monski, William J. JR.	Sewickley	PA	US
Alradady, Fahad	Glenshaw	PA	US
Misic, George J.	Allison Park	PA	US

US-CL-CURRENT: 324/318

Term	Documents
DIFFERENT	4706364
DIFFERENTS	287
SEPARATE	2775532
SEPARATES	327663
INDIVIDUAL	1897335
INDIVIDUALS	160411
DIAMETER	2534814
DIA	355170
DIAMETERS	403211
DIAM	51175

RADIUS	559559
(L79 AND (SLOP$3 OR TAPER$3 OR ((VARY$3 OR VARI$4 OR CHANG$3 OR ALTER$3 OR DIFFERENT OR SEPARATE OR INDIVIDUAL) WITH (DIAMETER OR RADIUS)))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1

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Search Results - Record(s) 1 through 15 of 15 returned.

□ 1. Document ID: US 20050099179 A1

Using default format because multiple data bases are involved.

L82: Entry 1 of 15   File: PGPB   May 12, 2005

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PGPUB-DOCUMENT-NUMBER: 20050099179
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050099179 A1
```

Applicats Own Instant Application

TITLE: Parallel imaging compatible birdcage resonator

PUBLICATION-DATE: May 12, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Monski, William J. JR.	Sewickley	PA	US
Alradady, Fahad	Glenshaw	PA	US
Misic, George J.	Allison Park	PA	US

US-CL-CURRENT: 324/318

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D.

□ 2. Document ID: US 6832108 B2

L82: Entry 2 of 15   File: USPT   Dec 14, 2004

```
US-PAT-NO: 6832108
DOCUMENT-IDENTIFIER: US 6832108 B2
```

N/A TAF

TITLE: Endovaginal MRI receiver coil

DATE-ISSUED: December 14, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
deSouza; Nandita M.	London			GB
Gilderdale; David J.	Bovey Tracey			GB

US-CL-CURRENT: 600/423; 600/422

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D.

□   3.   Document ID: US 6777937 B1

L82: Entry 3 of 15   File: USPT   Aug 17, 2004

US-PAT-NO: 6777937
DOCUMENT-IDENTIFIER: US 6777937 B1

TITLE: Nuclear quadrupole resonance method and apparatus   *NA THF 12/5/2005*

DATE-ISSUED: August 17, 2004

INVENTOR-INFORMATION:
NAME	CITY	STATE	ZIP CODE	COUNTRY
Miller; Joel	Cheverly	MD		
Garroway; Allen	Fort Washington	MD		

US-CL-CURRENT: 324/318; 324/322

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

□   4.   Document ID: US 6745064 B2

L82: Entry 4 of 15   File: USPT   Jun 1, 2004

US-PAT-NO: 6745064
DOCUMENT-IDENTIFIER: US 6745064 B2   *NA THF 12/05/2005*

TITLE: Magnetic resonance method for forming a fast dynamic imaging

DATE-ISSUED: June 1, 2004

INVENTOR-INFORMATION:
NAME	CITY	STATE	ZIP CODE	COUNTRY
Fuderer; Miha	Eindhoven			NL
Harvey; Paul Royston	Eindhoven			NL

US-CL-CURRENT: 600/410; 324/307, 324/309

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

□   5.   Document ID: US 6714013 B2   *Cited on 892*

L82: Entry 5 of 15   File: USPT   Mar 30, 2004

US-PAT-NO: 6714013
DOCUMENT-IDENTIFIER: US 6714013 B2   *NA THF 12-5-2005*
** See image for Certificate of Correction **

TITLE: Magnetic resonance imaging receiver/transmitter coils

DATE-ISSUED: March 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Misic; George J.	Allison Park	PA		

US-CL-CURRENT: 324/318; 324/322

☐ 6.   Document ID: US 6426624 B1

L82: Entry 6 of 15   File: USPT   Jul 30, 2002

US-PAT-NO: 6426624
DOCUMENT-IDENTIFIER: US 6426624 B1   NA TAF 12/5/2005

TITLE: Assembly formed by a magnetic resonance apparatus and a combination of coils

DATE-ISSUED: July 30, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Snelten; Jeroen	Eindhoven			NL

US-CL-CURRENT: 324/318; 324/309, 324/322

☐ 7.   Document ID: US 6317091 B1

L82: Entry 7 of 15   File: USPT   Nov 13, 2001

US-PAT-NO: 6317091
DOCUMENT-IDENTIFIER: US 6317091 B1   NA TAF 12/5/2005

TITLE: Apparatus for inductively coupling a nuclear magnetic resonance signal into
a reception antenna, and medical instrument incorporating such an apparatus

DATE-ISSUED: November 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Oppelt; Arnulf	Spardorf			DE

US-CL-CURRENT: 343/742; 324/318, 343/867

☐ 8.   Document ID: US 6177797 B1

L82: Entry 8 of 15   File: USPT   Jan 23, 2001

US-PAT-NO: 6177797
DOCUMENT-IDENTIFIER: US 6177797 B1   *On Applicant's IDS*

TITLE: Radio-frequency coil and method for resonance/imaging analysis

DATE-ISSUED: January 23, 2001

INVENTOR-INFORMATION:
NAME	CITY	STATE	ZIP CODE	COUNTRY
Srinivasan; Ravi	Richmond Heights	OH		

US-CL-CURRENT: 324/318; 324/322

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw. D.

☐ 9.   Document ID: US 5664568 A

L82: Entry 9 of 15   File: USPT   Sep 9, 1997

US-PAT-NO: 5664568
DOCUMENT-IDENTIFIER: US 5664568 A   *On Cit'd 89) TAF 12-5-2005*

TITLE: Split-top, neck and head vascular array for magnetic resonance imaging

DATE-ISSUED: September 9, 1997

INVENTOR-INFORMATION:
NAME	CITY	STATE	ZIP CODE	COUNTRY
Srinivasan; Ravi	Richmond Hts.	OH		
Henderson; Robert G.	Wickliffe	OH		
Elek; Robert A.	Chardon	OH		

US-CL-CURRENT: 600/422; 324/318, 324/322

Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw. D.

☐ 10.   Document ID: US 5578925 A

L82: Entry 10 of 15   File: USPT   Nov 26, 1996

US-PAT-NO: 5578925
DOCUMENT-IDENTIFIER: US 5578925 A   *MA TAF 12-5-2005*

TITLE: Vertical field quadrature phased array coil system

DATE-ISSUED: November 26, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Molyneaux; David A.	Mentor	OH		
Braum; William O.	Solon	OH		

US-CL-CURRENT: 324/318; 324/322

☐ 11. Document ID: US 5394087 A

L82: Entry 11 of 15   File: USPT   *MA TAF*   Feb 28, 1995

US-PAT-NO: 5394087
DOCUMENT-IDENTIFIER: US 5394087 A   *12-15-2005*

TITLE: Multiple quadrature surface coil system for simultaneous imaging in magnetic resonance systems

DATE-ISSUED: February 28, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Molyneaux; David A.	Willowick	OH		

US-CL-CURRENT: 324/318; 600/422

☐ 12. Document ID: US 5374890 A

L82: Entry 12 of 15   File: USPT   Dec 20, 1994

MA TAF

US-PAT-NO: 5374890
DOCUMENT-IDENTIFIER: US 5374890 A   *12-15-2005*

TITLE: Simultaneous magnetic resonance imaging of multiple human organs

DATE-ISSUED: December 20, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Zou; Xueming	Chesterland	OH		
Patrick; John L.	Chagrin Falls	OH		
McNally; James M.	Chagrin Falls	OH		

US-CL-CURRENT: 324/318; 324/309

☐ 13. Document ID: US 5374889 A

L82: Entry 13 of 15   File: USPT   Dec 20, 1994

US-PAT-NO: 5374889
DOCUMENT-IDENTIFIER: US 5374889 A

TITLE: Magnetic resonance measurement   *NA TAF 12-5-2005*

DATE-ISSUED: December 20, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Leach; Martin O.	Wallington			GB
Sharp; Jonathan C.	Leicester			GB

US-CL-CURRENT: 324/309; 324/307

`Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D`

☐ 14. Document ID: US 5258717 A

L82: Entry 14 of 15   File: USPT   Nov 2, 1993

US-PAT-NO: 5258717   *On Applicants IDS*
DOCUMENT-IDENTIFIER: US 5258717 A   *of 8-17-2005   NA TAF 12-5-2005*

TITLE: Geometrically isolated multiple port volume MRI receiving coil comprising
multiple quadrature coils

DATE-ISSUED: November 2, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Misic; George J.	Novelty	OH		
Reid; Eric D.	Turtle Creek	PA		

US-CL-CURRENT: 324/318

`Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D`

☐ 15. Document ID: US 4825162 A   *On Applicants IDS of 8-17-2005*

L82: Entry 15 of 15   File: USPT   Apr 25, 1989

US-PAT-NO: 4825162   *NA TAF 12-5-2005*
DOCUMENT-IDENTIFIER: US 4825162 A
** See image for Certificate of Correction **

TITLE: Nuclear magnetic resonance (NMR) imaging with multiple surface coils

DATE-ISSUED: April 25, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Roemer; Bernard	Schenectady	NY		
Edelstein; William A.	Schenectady	NY		

US-CL-CURRENT: 324/318; 324/312

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D. |

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Term	Documents
PRIMARY	1830285
PRIM	50681
SECONDARY	1070678
SEC	737437
FIRST	7122810
FIRSTS	952
SECOND	6387623
SECONDS	604617
ADJACENT	3459129
ADJACENTS	285
NEXT	2196684
(L81 AND (((PRIMARY OR SECONDARY OR FIRST OR SECOND) WITH (RESONAN$2)) WITH (NEIGHBOR$4 OR "ADJACENT" OR "NEXT" OR "REGION" OR AREA OR VOLUME) WITH (SHAR$3 OR CONNECT$4 OR MUTUAL$2 OR COMMON OR "SAME" OR PARTIAL$2 OR PORTION) WITH (OVERLAP$4 OR OVER-LAP$4))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	15

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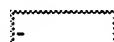
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Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1.   Document ID: US 20050099179 A1

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   L83: Entry 1 of 3                    File: PGPB              May 12, 2005


PGPUB-DOCUMENT-NUMBER: 20050099179
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050099179 A1


TITLE: Parallel imaging compatible birdcage resonator


PUBLICATION-DATE: May 12, 2005


INVENTOR-INFORMATION:
NAME                          CITY                STATE   COUNTRY
Monski, William J. JR.        Sewickley           PA      US
Alradady, Fahad               Glenshaw            PA      US
Misic, George J.              Allison Park        PA      US


US-CL-CURRENT: 324/318
```

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D.

☐ 2.   Document ID: US 6745064 B2

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   L83: Entry 2 of 3                    File: USPT             Jun 1, 2004
```

N/A TAF 12/5/2005

```
US-PAT-NO: 6745064
DOCUMENT-IDENTIFIER: US 6745064 B2


TITLE: Magnetic resonance method for forming a fast dynamic imaging


DATE-ISSUED: June 1, 2004


INVENTOR-INFORMATION:
NAME                     CITY           STATE   ZIP CODE    COUNTRY
Fuderer; Miha            Eindhoven                          NL
Harvey; Paul Royston     Eindhoven                          NL


US-CL-CURRENT: 600/410; 324/307, 324/309
```

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D.

Cited in Hical Art
Not a Single Coil Combine which
Meet Applicant's claim

NA TAF 12-5-2005

☐ 3. Document ID: US 4825162 A

L83: Entry 3 of 3   File: USPT   Apr 25, 1989

US-PAT-NO: 4825162
DOCUMENT-IDENTIFIER: US 4825162 A
** See image for **Certificate of Correction** **

TITLE: Nuclear magnetic resonance (NMR) imaging with multiple surface coils

DATE-ISSUED: April 25, 1989

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Roemer; Bernard	Schenectady	NY		
Edelstein; William A.	Schenectady	NY		

US-CL-CURRENT: 324/318; 324/312

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | | Draw D

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Term	Documents
DIFFERENT	4706364
DIFFERENTS	287
SEPARATE	2775532
SEPARATES	327663
INDIVIDUAL	1897335
INDIVIDUALS	160411
DIAMETER	2534814
DIA	355170
DIAMETERS	403211
DIAM	51175
RADIUS	559559
(L82 AND (SLOP$3 OR TAPER$3 OR ((VARY$3 OR VARI$4 OR CHANG$3 OR ALTER$3 OR DIFFERENT OR SEPARATE OR INDIVIDUAL) WITH (DIAMETER OR RADIUS)))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	3

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L83: Entry 2 of 3   File: USPT   Jun 1, 2004

DOCUMENT-IDENTIFIER: US 6745064 B2
TITLE: Magnetic resonance method for forming a fast dynamic imaging

Brief Summary Text (2):
In magnetic resonance imaging there is a general tendency to obtain acceptable
images in shorter time. For this reason there have been developed recently the
sensitivity encoding method called "SENSE" by the Institute of Biomedical
Engineering and Medical Informations, University and ETH Zurich, Switzerland. The
SENSE method is based on an algorithm which directly acts on the image as detected
by the coils of the magnetic resonance apparatus, wherein subsequent encoding steps
can be skipped and thus an acceleration of the signal acquisition for imaging of a
factor two to three can be obtained. Crucial for the SENSE method is the knowledge
of the sensitivity of the coils, which are arrange in so called sensitivity maps.
In order to accelerate this method there are proposals to use raw sensitivity maps
which can be obtained through division by either the "sum-of-squares" of the single
coil references or by an optional body coil reference (see e.g. K. Pruessmann et.
al. in Proc. ISMRM, 1998, abstracts p. 579, 799, 803 and 2087.'

Detailed Description Text (28):
A further option for above mentioned reconstruction methods is filtering of the L-
data before FFT, by multiplying it with a tapering function, e.g. a Riesz function.
In addition the L-data can be used for the reconstruction of the coil-sensitivity
maps. In regular SENSE the coil-sensitivity maps are usually derived by comparison
of coil element data to a body-coil acquisition. However, according to above
mentioned methods the body-coil data is not or not necessarily available. It is
already proposed to take the root-sum-of-squares (RSSQ) combination of the coil
element data instead. Yet, that RSSQ is devoid of phase information, thus
differences with pixels of the L-image may be introduced. Therefore it is suggested
to take a plain sum of the L-data over the coil elements, which will give a more
proper result. If the plain sum can be taken after a very basic phase correction,
e.g. correcting L-data of every coil element to have zero average phase.

Current US Original Classification (1):
600/410

Current US Cross Reference Classification (1):
324/307

Current US Cross Reference Classification (2):
324/309

CLAIMS:

2. A magnetic resonance method for fast dynamic imaging of a plurality of signals
acquired by an array of multiple sensors comprising the steps of: providing a
sensitivity map of each of the sensors prior to imaging, weighting at least two
adjacent sensors recording signals originating from the same imaging position with
a sensitivity factor of each respective sensor at each respective imaging position,
and calculating an image intensity from the signals measured by the different
sensors, wherein a number of phase encoding steps required for carrying out said

method is reduced with respect to a full set by segmenting k-space into <u>regions</u> of different acquisition, said segmenting including that a <u>first region of a first</u> acquisition type data of normal magnetic <u>resonance</u> imaging is acquired for a <u>first partial</u> image using one of a full set of phase encoding steps and data of fast dynamic imaging, and that a number of phase encoding steps is reduced in accordance with a low reduction factor with respect to the full set, said segmenting further including that a <u>second region of a second</u> acquisition type data of fast dynamic imaging is acquired for a <u>second partial</u> image using a number of phase encoding steps which is reduced with a full reduction factor, wherein the <u>first and the second partial</u> images are used to form the full image of the object to be imaged, wherein the <u>first region and the second region overlap</u> to a predetermined extent, and wherein the resulting image is combined as

$I=f(D)*L+(1-f(D))*S$ whereas: I=the resulting image D=determinant of the equations for every pixel f(D)=function that approaches 1 for low values of D and approaches 0 for high values of D L=data of the first region S data of the second region.

3. The magnetic resonance method according to claim 2, wherein the data of the first region are filtered by multiplying with a <u>tapering</u> function before fast Fourier transformation.

Hit List

Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 20050099179 A1

Using default format because multiple data bases are involved.

L87: Entry 1 of 1   File: PGPB   May 12, 2005

PGPUB-DOCUMENT-NUMBER: 20050099179
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050099179 A1

TITLE: Parallel imaging compatible birdcage resonator

PUBLICATION-DATE: May 12, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Monski, William J. JR.	Sewickley	PA	US
Alradady, Fahad	Glenshaw	PA	US
Misic, George J.	Allison Park	PA	US

US-CL-CURRENT: 324/318

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D.

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Term	Documents
BIRDCAGE	879
BIRDCAGES	56
"BIRD CAGE"	0
BIRD-CAGE	210
BIRD-CAGES	13
UNITARY	289710
UNITARIES	6
UNITARYS	3
SINGLE	3663718
SINGLES	3525

STRUCTURE	4638403
(L85 AND ((BIRDCAGE OR "BIRD CAGE" OR BIRD-CAGE OR ((UNITARY OR SINGLE) WITH (STRUCTURE))) WITH ((PRIMARY OR SECONDARY OR FIRST OR SECOND) WITH (RESONAN$2)) WITH (SHAR$3 OR CONNECT$4 OR MUTUAL$2 OR COMMON OR "SAME" OR PARTIAL$2 OR PORTION) WITH (OVERLAP$4 OR OVER-LAP$4))).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	1

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